CLAIMS:

1. A display apparatus (100, 300) for displaying an output image on basis of 3D visual information, the display apparatus (100, 300) comprising:

- first receiving means (101) for receiving a first signal (3DV) representing the 3D visual information;
- second receiving means (116) for receiving a second signal (P) representing positional information of a viewer of the output image, as function of time, the positional information being relative to the display apparatus (100, 300);
- filtering means (122) for high-pass filtering the second signal (P), resulting in a third signal (PF);
- rendering means (118) for rendering the output image on basis of the first signal (3DV) and the third signal (PF); and
- display means (112) for displaying the output image.

2. A display apparatus (100, 300) as claimed in claim 1, wherein the 3D visual information comprises an input image and a corresponding depth map.

3. A display apparatus (100, 300) as claimed in claim 2, wherein for a predetermined value of the third signal (PF) the input image and the output image are substantially mutually equal.

4. A display apparatus (100, 300) as claimed in claim 2, further comprising clipping means (124) for clipping the third signal between a lower limit (404) and an upper limit (402).

5. A display apparatus (300) as claimed in claim 2 or 4, further comprising content analyzing means (128) for analyzing the 3D visual information and/or the output image and for controlling the filtering means (122) and/or the clipping means (124).

6. A display apparatus (300) as claimed in claim 5, wherein the content analyzing means (128) is arranged to determine a measure of a set of measures comprising a first measure corresponding to the number of discontinuities in the depth map, a second measure corresponding to the homogeneity of the input image and a third measure corresponding to the number of holes in the output image.

7. A display apparatus (300) as claimed in claim 6, wherein the content analyzing means (128) is arrange to increase the lower limit and/or decrease the upper limit if the first measure is relatively high or the second measure is relatively low or the third measure is relatively high.

8. A display apparatus (100, 300) as claimed in claim 6, wherein the content analyzing means (128) is arrange to decrease the cut-off frequency of the filtering means (124) if the first measure is relatively high or the second measure is relatively low or the third measure is relatively high.

9. A display apparatus (300) as claimed in claim 1, wherein the display apparatus (300) is a multi-view display device being arranged to render a further output image and to display the output image in a first direction and to display the further output image in a second direction.

10. A method of displaying an output image on basis of 3D visual information, the method comprising:

- receiving a first signal representing the 3D visual information;
- receiving a second signal representing positional information of a viewer of the output image, as function of time, the positional information being relative to a display apparatus (100, 300);
- high-pass filtering the second signal, resulting in a third signal;
- rendering the output image on basis of the first signal and the third signal; and
- displaying the output image.

11. A computer program product to be loaded by a computer arrangement, comprising instructions to render an output image on basis of 3D visual information, the

computer arrangement comprising processing means and a memory, the computer program product, after being loaded, providing said processing means with the capability to carry out:

- receiving a first signal representing the 3D visual information;
- receiving a second signal representing positional information of a viewer of the output image, as function of time, the positional information being relative to a display apparatus (100, 300);
- high-pass filtering the second signal, resulting in a third signal; and
- rendering the output image on basis of the first signal and the third signal.